

# Endocrine System

## Pancreas

**Pathophysiology:** an organ in the body containing alpha and beta cells that produce both endocrine and exocrine function

- **Alpha cells:** secrete glucagon
- **Beta cells:** secrete insulin
- **Endocrine function:** hormones assist body with metabolism
- **Exocrine function:** secretion of enzymes to help assist with food digestion



## Diabetes

**Pathophysiology:**

- DM 1: there is insufficient insulin
- DM 2: there is insulin resistance

**Causes:**

- DM 1
  - Past viral infection
  - Genetic predisposition
- DM 2
  - Poor lifestyle choices

**Signs & Symptoms:**

- Increased urine
- Increased hunger
- Increased thirst
- Increased fatigue
- Blurred vision (early onset) that can lead to chronic complications
- Pins/needles feeling in the feet
- Unexplained weight loss (DM1)

## Polyuria & Polydipsia

- The blood is thick, making it hard for the heart to supply blood and O<sub>2</sub> to the body. The body tries to thin the blood by pulling excess H<sub>2</sub>O, causing an increase in urine and thirst.



## Prevention

- Glucose control
- Diet
- Exercise
- Medications
- Urine testing for ketones

**REFER TO DM1 & DM2 CARE PLAN FOR DETAILS**

## Why is it important?

- Poor diabetic control can lead to heart and vessel damage, kidney failure, and nerve damage.

## Diabetic Sick Day Rules

- Monitor blood glucose every 4 hours
- Test urine for ketones (>240 mg/dL)
- Continue to take medications unless a provider says otherwise
- Increase fluid intake to prevent dehydration
- Eat meals at regular times

**CALL DOCTOR IF:**

- Persistent N/V/D
- Moderate to high ketones
- Blood sugar >250 and not responding to insulin
- Illness longer than 2 days
- Fever 101.5 or higher for more than 24 hours

## Risk Factors

- Hypertension (damages the blood vessels)

# Faculty Scf Edu Study Guide Endocrine System

**C Cleary**



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## **Table of Contents Faculty Scf Edu Study Guide Endocrine System**

1. Understanding the eBook Faculty Scf Edu Study Guide Endocrine System
  - The Rise of Digital Reading Faculty Scf Edu Study Guide Endocrine System
  - Advantages of eBooks Over Traditional Books
2. Identifying Faculty Scf Edu Study Guide Endocrine System
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Faculty Scf Edu Study Guide Endocrine System
  - User-Friendly Interface
4. Exploring eBook Recommendations from Faculty Scf Edu Study Guide Endocrine System
  - Personalized Recommendations
  - Faculty Scf Edu Study Guide Endocrine System User Reviews and Ratings
  - Faculty Scf Edu Study Guide Endocrine System and Bestseller Lists
5. Accessing Faculty Scf Edu Study Guide Endocrine System Free and Paid eBooks
  - Faculty Scf Edu Study Guide Endocrine System Public Domain eBooks
  - Faculty Scf Edu Study Guide Endocrine System eBook Subscription Services
  - Faculty Scf Edu Study Guide Endocrine System Budget-Friendly Options
6. Navigating Faculty Scf Edu Study Guide Endocrine System eBook Formats

- ePub, PDF, MOBI, and More
- Faculty Scf Edu Study Guide Endocrine System Compatibility with Devices
- Faculty Scf Edu Study Guide Endocrine System Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Faculty Scf Edu Study Guide Endocrine System
  - Highlighting and Note-Taking Faculty Scf Edu Study Guide Endocrine System
  - Interactive Elements Faculty Scf Edu Study Guide Endocrine System
- 8. Staying Engaged with Faculty Scf Edu Study Guide Endocrine System
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Faculty Scf Edu Study Guide Endocrine System
- 9. Balancing eBooks and Physical Books Faculty Scf Edu Study Guide Endocrine System
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Faculty Scf Edu Study Guide Endocrine System
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Faculty Scf Edu Study Guide Endocrine System
  - Setting Reading Goals Faculty Scf Edu Study Guide Endocrine System
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Faculty Scf Edu Study Guide Endocrine System
  - Fact-Checking eBook Content of Faculty Scf Edu Study Guide Endocrine System
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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